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012756909 **Image available**

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Optical sensor for use in motor vehicles for detecting ambient parameters, which influence visibility

Patent Assignee: BOSCH GMBH ROBERT (BOSC)

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Number of Countries: 021 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19839273	A1	19990923	DE 198039273	A	19980828	199948 B
WO 9947396	A1	19990923	WO 99DE665	A	19990311	199948
EP 981470	A1	20000301	EP 99914438	A	19990311	200016
			WO 99DE665	A	19990311	
KR 2001012212	A	20010215	KR 99710161	A	19991103	200154
JP 2002500769	W	20020108	JP 99546372	A	19990311	200206
			WO 99DE665	A	19990311	
US 6376824	B1	20020423	WO 99DE665	A	19990311	200232
			US 2000423768	A	20000215	
EP 981470	B1	20040428	EP 99914438	A	19990311	200429
			WO 99DE665	A	19990311	
			EP 20044483	A	19990311	
DE 59909301	G	20040603	DE 99509301	A	19990311	200436
			EP 99914438	A	19990311	
			WO 99DE665	A	19990311	
EP 1424252	A2	20040602	EP 99914438	A	19990311	200436
			EP 20044483	A	19990311	
ES 2220054	T3	20041201	EP 99914438	A	19990311	200480

Priority Applications (No Type Date): DE 198011529 A 19980317

Patent Details:

Patent No	Kind	IPC	Main IPC	Filing Notes
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DE 19839273	A1	10	G01W-001/14	
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WO 9947396	A1 G		B60S-001/08	
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Designated States (National): JP KR US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

EP 981470	A1 G		B60S-001/08	Based on patent WO 9947396
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Designated States (Regional): DE ES FR GB IT

KR 2001012212	A		B60S-001/08	
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JP 2002500769	W	21	G01W-001/14	Based on patent WO 9947396
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US 6376824	B1		H01L-031/00	Based on patent WO 9947396
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EP 981470	B1 G		B60S-001/08	Related to application EP 20044483
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Based on patent WO 9947396

Designated States (Regional): DE ES FR GB IT

DE 59909301	G		B60S-001/08	Based on patent EP 981470
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Based on patent WO 9947396

EP 1424252	A2 G		B60S-001/08	Div ex application EP 99914438
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Div ex patent EP 981470

Designated States (Regional): DE ES FR GB IT

ES 2220054	T3		B60S-001/08	Based on patent EP 981470
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Abstract (Basic): DE 19839273 A1

NOVELTY - The sensor (4) has at least one transmitter (14) and receiver (16,20,22). A windscreen lies in the measurement path between them and influences the light propagation between them. A receiver output signal, which is used to drive the windscreen wipers, changes if the windscreen becomes coated, especially moistened by precipitation. At least one receiver receives light at the ambient intensity and is used to drive a vehicle lighting system.

USE - For motor vehicles for detecting ambient parameters that influence visibility.

ADVANTAGE - A combined sensor enables automatic control of the windscreen wipers and illumination depending on visibility parameters.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic sectional representation of an optical sensor.

optical sensor (4)

transmitter (14)

receivers (16,20,22)

pp; 10 DwgNo 1/10

Title Terms: OPTICAL; SENSE; MOTOR; VEHICLE; DETECT; AMBIENT; PARAMETER; INFLUENCE; VISIBLE

Derwent Class: Q16; Q17; S03; X22

International Patent Class (Main): B60S-001/08; G01W-001/14; H01L-031/00

International Patent Class (Additional): B60Q-001/00; B60Q-001/14;

B60S-001/02; G01M-011/02; G01N-021/17; G01N-021/45; G01N-021/55;

G01N-021/88

File Segment: EPI; EngPI

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